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Coding Information

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**Title: Cummins Programming Guide and Cummins 285 Fault Code**

**Applies To: Pre 2007 7600, 7700, 8600, Cummins ISM Engine**

## CHANGE LOG

**Dealers: Please refer to the change log text box below for recent changes to this article:**

9/30/2014 - Updated section 2.  
6/30/2014 - Added link to Cummins PowerSpec website

## DESCRIPTION

There are several possible causes for a 285 code in a Cummins engine. The 3 most common causes are:

- 1) A problem with the 1939 datalink. Ensure that all modules are communicating on the 1939. For 1939 diagnostics: [Click Here](#)
- 2) An incorrectly programmed parameter in the engine.

For the newer ISB and ISX engines please create a Tech Service case file with the Programming team, they will pull the as built parameters from the database and provide them to you in the case file.

Use the following link which illustrates how a typical Cummins INSITE screen should appear when the ECM is programmed correctly [Cummins Programming Guide](#).

Review the latest feature and parameter information found at [Cummins PowerSpec](#).

- 3) A bad calibration from INCAL. This can also cause only one or two engine gauges not to work (see below).

Refer to Cummins daily note DN060002 (below).

Daily Note Number	Document Origination Date
DN060002	10-JAN-2006

Expiration Date (U.S. and Canada)	Expiration Date (International)
10-JUL-2006	10-JUL-2006

## Daily Note

# January 2006 INCAL CD-ROM Calibration Issue


### Information

This Daily Note is to provide information for a potential calibration issue that exists on the January 2006 INCAL Calibration CD-ROM for certain ISX CM870 calibrations and all ISM CM875 calibrations. The issue will **only** occur on ISX CM870 and/or ISM CM875 engines that have the SAE J1939 Multiplexing feature enabled. The J1939 multiplexing issue can result in an active Fault Code 285 (SAE J1939 Multiplexing PGN Timeout Error - Abnormal Update Rate).

Calibrations affected by this issue on the January 2006 INCAL Calibration CD-ROM include all ISM CM875 calibrations and ISX CM870 calibrations for control parts lists (CPL)s 8518, 8519, 8520, 8521, 8522, and 8523. The January 2006 INCAL Calibration CD-ROM can **not** be used for ECM calibration transfers on any ISM CM875 and/or ISX CM870 CPLs 8518 through 8523 engines that also have SAE J1939 Multiplexing enabled. ISX CM870 CPLs 8518 through 8523 and ISM CM875 engines that do **not** have SAE J1939 Multiplexing enabled will **not** be affected by this issue.

Calibrations on the January 2006 INCAL Calibration CD-ROM for ISM CM870 and ISX CM870 CPLs 8283, 8284, 8285, 8286, 8287, and 8288 are **not** affected by this issue.

A calibration fix for this issue will be included on the next INCAL Calibration CD-ROM release. For ECM calibration transfers that involve an affected calibration, Dealers can contact their local Distributor. Cummins Distributors can contact the Distributor Technical Support Hotline for assistance.

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